

## PENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PP04-0108	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/KR2004/001068</b>	International filing date (day/month/year) <b>07 MAY 2004 (07.05.2004)</b>	(Earliest) Priority Date (day/month/year) <b>27 MAY 2003 (27.05.2003)</b>
Applicant <b>LG CHEM. LTD. et al</b>		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b.  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2.  Certain claims were found unsearchable (See Box No. II)

3.  Unity of invention is lacking (See Box No. III)

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

b.  none of the figure is to be published with the abstract.

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7 B01J 27/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 B01J 27, B01J 29, C10G, C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KOREAN PATENTS AND APPLICATIONS FOR INVENTIONS SINCE 1975  
KOREAN UTILITY MODELS AND APPLICATIONS FOR UTILITY MODELS SINCE 1975Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
HTTP://WWW.USPTO.GOV/, HTTP://WWW.DELPHION.COM/  
WPI, PAJ, '(crack\* or pyrolysis) and catalyst and (potassium or K) and olefin and phospho\* and (magnesium or Mg) and steam'

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4356338 (Mobil Oil Corporation) 26 October 1982 see the abstract	1 ~ 5
A	US 4411777 (Phillips Petroleum Company) 25 October 1983 see the abstract	1 ~ 5
A	US 4977122 (Exxon Research and Engineering Company) 11 December 1990 see the whole document	1 ~ 21
A	US 5380690 (China Petrochemical Corporation) 10 January 1995 see the whole document	1 ~ 21
A	US 6211104 (China Petrochemical Corporation) 3 April 2001 see the whole document	1 ~ 21
A	US 6566293 (Akzo Nobel N.V.) 20 May 2003 see the whole document	1 ~ 21

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

24 AUGUST 2004 (24.08.2004)

Date of mailing of the international search report

25 AUGUST 2004 (25.08.2004)

Name and mailing address of the ISA/KR

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